INDEX TO VOLUME 13

A

Abbott. Maude E., 254 Abbott, Maude E., 252 Abnormality, congenital, of heart, due to defective development of right ventricle associated with tricuspid atresia or hypoplasia,

Abramson, D. I., Katz, L. N., Margolin, S., and Lourie, R., 217
Acceleration, importance of position on ability to withstand, 498*
Aceto-acetic acid, feeding of, production of intimal changes in arteries attempted in rat by, 246*
Acetylcholine, action of, on blood vessels, blood pressure, heart and vasomotor centers, 748*
injected intraarterially, in sympathectomized subjects, 631*
intensification by eserine of, upon secretion of adrenalin, 628*
coronary arteries, reaction of, to, 500*
Acid, production of, in functioning heart under conditions of ischemia and of congestion, 743*
Actinocardiography, 761*
Adamek, G., and Friedländer, E., 758*
Addison's disease, thromboangiitis obliterans and, in same patient, 507*
Age, physiology of, 502*
relation of, to structure of small arteries and arterioles in skeletal muscle, 246*
significance of relative duration of systole in healthy persons, 379*
Air chambers, cooling: depth tempera-

muscle, 246*
significance of relative duration of systole in healthy persons, 379*
Air chambers, cooling: depth temperature in artificial fevers and, with special reference to cooling effect of circulating blood, 746*

Allen, Edgar V., and Lauderdale, T. L., 384*

—, and McKechnie, R. E., 383*
—, and Norman, I. L., 257
Allergy, idiosyncratic cosinophilic myocarditis, 242*
Allorhythmia, extrasystolic, 749*

Altschule, Mark D., and Blumgart, H. L.,

Analeptics, circulatory action of, 760*
Andrus, Frank C. 246*
Anemia, anoxemia and, of heart muscle
and angina pectoris, 744*
condition of, acid production in functioning heart under, 743*
hookworm, heart changes and physiological adjustment in, 550
Aneurysm, aortic, mediastinal movement
in, 761*
arteriovenous, with pronounced electrocardiographic changes, 95
dissecting, of aorta, 129, 426
of subclavian artery, cervical rib associated with, 507*
popliteal, ruptured, demonstration by
thorium dioxide arteriography,

thorium dioxide arteriography, 1274

thoracic, symptoms of, persistent hic-coughs as, 624

Angina pectoris, anemia and anoxemia of heart muscle and, 744*

Anoxemia, anemia and, of heart muscle and angina pectoris, 744*

Anxiety, symptom of, and cardiac psychosis, 394

Aorta, abdominal, stenosis, congenital, of, 633

abnormality of, and heart, use of barium-filled esophagus in x-ray of, 723 aneurysm, dissecting, of, 129, 426 mediastinal movement in, 761* arch of, right sided, 754* studies, chemical and histological, upon, of horse, 502* thrombosis of, and coronary arteries with "fibrinoid" lesions, 126* ortitis, syphilitic, early, diagnosis of, teleroentgengraphy in, 297 renberg, H., 197 Aortitis,

Arenberg, H., 197
Arenberg, H., 197
Arrhythmia, asystole, ventricular, effect
of, on respiration, 239*
atrioventricular, with and without retrograde block, 61
physiological, of heart beat, 123*
Arteries, digital, of normal and hypertensive individuals, 1
of extremities, sudden occlusion of, 383*
Arteriography, thorium dioxide, demonstration of ruptured popliteal aneurysm, 127*
thorotrast study of acquired arteriovenous fistula, 247*
thromboanglitis obliterans in negroes,

thromboangiitis obliterans in negroes, 511

Arterioles (see Artery)
Arterioles (see Artery)
Arteriosclerosis, experimental, inhibition of, by potassium iodide and colloidal silicic acid, 627*
investigations on, 124*
human, in relation to cholesterol content of blood serum, 125*
intima of coronary arteries in, vascularization and hemorrhage of, 127*

127*

pulmonary, primary, 756° rheumatic, pathogenesis of, 756° rtery, "balloon" of, elasticity of, at different ages in man, 128° carotid, exteriorization of, dietary and emotional factors affecting blood Artery,

pressure of cats, observed

changes in intima of, in rat by prolonged feeding of aceto-acetic acid, 246*
coronary, arteriosclerotic, intima of, vascularization and hemorrhage of, 127*
disease of, 254 (book review)
left, circumflex branch of, blood flow in, of intact dog, 119*
occlusion, acute impending, diagnosis of, 675
experimental, hemodynamics of 647

experimental, hemodynamics of, 647, 664

664
radial artery changes in comparison with those of, and other arteries, 757*
reaction of, to acetylcholine, 500*
sclerosis of, relation of, to symptoms,

7534

thrombosis of, acute, and myocardial infarction affecting a patient thirty-one years of age, 741 and aorta with "fibrinoid" lesions, 126*

heart failure and other factors in its course and prognosis, 330 size of heart after, 630* denervated, vasomotor tonus of, 380* digital, of normal and hypertensive individuals, 1

An asterisk (*) indicates that the reference is an abstract and not an original article.

Artery-Cont'd disease, occlusive, of, treatment of, of extremity by passive vascular exercise, 761*

extremity, relief of pain by of lower peripheral nerve block in, 246* human, velocity of blood stream, 249* mesenteric, superior, embolization of, genesis of intestinal infarction following, 382*

occlusion, complete, of, with involve-ment of entire small intestine, 126*

mesentery, occlusion of, of arterial and venous origin, 157* occlusion, acute, of extremities, 126* of extremities, sudden occlusion of,

eripheral, disease, obstructive, of, treatment of, by intermittent venous occlusion, 247* importance of, in industrial practice, 507* peripheral.

pulmonary, bloodless method of meassuring pressure in, 504*
calcification, marked, of, 756*
constriction of, by adhesive pericarditis, 470
puncture of, measuring arterial pressure directly by, 377*
radial changes of, in comparison with
those of coronary artery and
other arteries, 757*
small, structure of, relation of age
and hypertension to, in skeletal
muscle, 246*
spasm of, in acute venous thrombosis,

spasm of, in acute venous thrombosis,

spasm of, in acute venous thromosis, 247*
subclavian, aneurysm of, cervical rib associated with, 507*
thrombosis, extensive, of, and venous, complicating chronic ulcerative colitis, 125*
unopened, measurement of velocity of blood flow in 128*
wall, living, elasticity of, action of musculature on, 756*
Arthritis, endocarditis, thrombotic non-bacterial, associated with, 243*
Ashmun, Richard, 763
Asphyxia, reduction in circulation through hand resulting from, 251*
Athletics, power and hypertrophy of heart following, 630*
Atherosclerosis (see Arteriosclerosis)
Autohemagglutination, reversible, with peripheral vascular symptoms, 386* peripheral 386*

B

Babey, Andrew, 228
Bacal, H. L., and Struthers, R. R., 124*
Baker, Lyle A., McNamara, W. L., and
Ducey, E. F., 108
Baldes, Edward J., Essex, H. E., Herrick,
J. F., and Mann, F. C., 119*
Balloon, central position of, in circulation, 248*
L. Vires, J., and May, P., 386*

tion, 248* J., Vires, J., and May, P., 386*

J., Bansi. Bargen, J. Arnold, and Barker, N. W.,

Barker, Nelson W., and Bargen, J. A., 125* Barsoum, G. S., and Smirk, F. H., 759*.

Barto, A., and Lanari, A., 631* Bärtschi, W., 500* Battro, A., and Braun-Menendez, E. B., 252*

—, —, and Orias, O., 628*

Baumann, F. 753*
Bay, Emmett B., 241*
Bedford, D. Evan, and Parkinson, J.,
754*

Bellet, Samuel, and Dyer, W. W., 72 Benzedrine, orthostatic hypotension, treated with, 114

Berger, A. A., 440 Berger, Adolph R., and Clark, E., 124*

Beriberi, pernicious, acute form of, and treatment by intravenous ad-ministration of vitamin B₁, 580

Betts, W., Roesler, H., and Gifford, U. G., Bischoff, 751*

Bischoff, 751*
Bishop, G. H., and Gilson, A. S., 629*
Block, C., 749*
—, and Pick, A., 749*
Blood, arterial, oxygen and carbon dioxide content of, and venous, of normal subjects, 504*
saturation of, in man, 498*
circulating, cooling effect of, depth temperature in artificial fevers and cooling air chambers with special reference to, 746*
flow of, in circumflex branch of left coronary artery of intact dog, 119*
of kidneys studied with Rein

of kidneys studied with Rein stromuhr, 498* peripheral, in surgical shock, 251* regulation of, circulatory and chem-ical, during and after exercise, 496* velocity of and

velocity of, and related aspects of circulation in normal pregnant women, 251* in human arteries, 249*

in human arteries, 249*
in unopened arteries, 128*
volume of, in clinical cases of surgical shock, 251*
plasma and total blood volume, relation to venous pressure, blood velocity, physical measurements, pressure, acetylcholine, action of, on,

action of deep breathing on, 380* arterial, dome of, influence of m culature of blood vessels 376*

directly by measuring

measuring directly by arterial puncture, 377*
bloodless method of, in pulmonary artery, 504*
bloodless method of measuring, in pulmonary artery, 504*
dietary and emotional factors affecting, observed by exteriorization of carotid artery, 238*
recording with electrical transmission, 379*
rise of, following strong electrical

rise of, following strong electrical current, 499* systemic, influence gion on, 505* variations of, in diseases of hypophysis, 245* venous, estimation, direct, value of, in ambulatory cardiac patients, 440 measurements measurements, comparative value of, in femoral and cubital veins,

431

venous, human, ncrease n concentra-tion of histamine-like substance in, during period of reactive hyperemia, 760° oxygen and carbon dioxide content of,

and arterial, of normal subjects, 504*

vessels, acetylcholine, action of, on, 748* ral, action of histamine upon, 631* cerebral.

of 11* innervation in man, 247* complication in cervical rib, 508* of polycythemia, 257 dilatation and constriction of, in response to warming and cooling body, 508*

Blood vessels-Cont'd

extremities, embolectomy of, 252* incidence and significance of, in normal and abnormal heart valves,

large, shadow of, relation of, to depth

of chest, 761*
musculature, influence of, on arterial pressure dome, 376*

reactions of skin to active principles of body, 499* relation of living mammalian lym-

phatic capillaries to, 376* renal reaction of, during course of regulatory events in systemic circulation, 385* human heart in

significance of, valves, 275

valves, 275
skeletal muscle, nerve plexus of, vasomotor interference in, induced by vasodilator substance following hyperemia, 748*
sympathectomized, control of, by sympathomimetic hormones and relation to surgical treatment of patients with Raynaud's disease, 380*

ease, 380° clinical application of method employing blue azo dye, "Evans blue," and the spectrophotometer, 747° es, relation of plasma and total blood volume to venous pressure, blood velocity rate, physical measurements, age and sex in 96 normal humas, 748° and 748*

ical measurements, age and sex in 90 normal humans, 748* total, relation of plasma and, to venous pressure, blood velocity rate, physical measurements, age, and sex in 90 normal humans, 748* Blue azo dye, "Evans blue," and spectrophotometer, clinical blood volume studies using, 747* Blumgart, Herman La, and Altschule.

Biumgart, Herrman L., and Altschule, M. D., 589 Böger, A., and Wezler, K., 128*, 248*, 376*, 756* Böhme, 497*

Böhme, 497*
Bohnenkamp, 495*
Bohning, A., Katz, L. N., Gutman, I.,
Jochim, K., Korey, H., Ocko, F.,
and Robinow, M., 17
Borg, Joseph F., and Johnson, C. E., 88
von Borisdorff, B., 377*
Brams, William A., and Golden, J. S.,
207

Braun-Menendez, E., and Battro, A., 252*

—, __, and Orias, O., 628*
Breathing, deep, action of, on blood pressure, 380*
Brill, I. C., 175
Broemser, 496*
Bronk, D. W., Ferguson, L. K., Margaria, R., and Solandt, D. Y., 119*
Brouha, L., Cannon, W. B., and Dill, D. B., 501*

Brown, George E., and Fatherree, T. J.,

Bruch, H., 631*
Brückner, G., 377*, 760*
Bruenn, Howard G., 413
Bruger, Maurice, Short, J. J., and Jaffe,
Lu., 246*
Brüner, H., 379*

Brüner, H., 37: Busch, P., 245

C

Cannon, W. B., B., Brouha, L., and Dill, D. 501*

Cannon, W. B., Brouha, L., and Dill, D. B., 561*
Capillaries, lymphatic, mammalian, living, observations on, 376*
Capillary, supply of, in normal and hypertrophied hearts of rabbits, 744*
Carbaminocholinchloride, action of, upon circulatory and gastrointestinal system, 239*

Carbon dioxide and oxygen content of

Carbon dioxide and oxygen content of arterial and venous blood of normal subjects, 504*
Carcinoma of duodenum, cardiac rupture associated with metastases to heart from, 108
Cardiovascular system, action of carbaminocholinchloride upon, and gastrointestinal system, 239* activity of, registration and interpretation of, in normal infant, 122*, 244*
reactions induced by electrical stimulation of cerebral cortex, 238* syphilis of, 297
value of graphic methods in diagnosis in, 241*
Carditis, rheumatic, high blood sedimenta-

Carditis, rheumatic, high blood sedimentation rate in, 245*
Carleton, H. M., and Liddell, E. G., 238
Carmichael, E. A., Uprus, V., and Gaylor,
J. B., 508*
Carotid sinus reflex in man, 239*
Carter, J. Bailey, 764
Cassisnis, 495*
Castleman, Benjamin, Glendy, R. E., and
White, P. D., 129
Centenera, D., and Springorum, W., 498*
Cerebral vascular innervation in man,
247*
Cerebrum, cortex of, cardiovascular recon-

Cerebrum, cortex of, cardiovascular reactions induced by electrical stimulation of, 238° Chasis, Herbert, Clark, E., and Graef, I.,

Chasis, Herbert, Clark, E., and Graef, I., 126*
de Châtel, A., 752*
Chest, closed: hemodynamics in experimental coronary occlusion, 664*
depth of, relation of shadow of large blood vessels to, 761*
open: hemodynamics in experimental coronary occlusion, 647
Chester, William, 492
Children, electrocardiographic alterations produced by typhoid fever in, 123*
heart disease in, 36

heart disease in, 36

heart disease in. 36
rheumatic infections in, sedimentation
rate and Schilling count, 124*
Chisholm, Donald R., 362
Cholesterol, content of, of blood serum,
human, atherosclerosis in relation to, 125*
Circulation, action of, of analeptics, 760*
collapse of, nature of, induced by sodium nitrite, 502*
orthostatic, in man, following exercise, 495*
coronary, reactions of, criterion of,
validity of coronary sinus outflow, 743*
dye injection method for studying, 250*
dynamics of, in tricuspid stenosis, 589
in sport, 385*
insufficiency of, and oxygen deficiency,

in sport, 385*
insufficiency of, and oxygen deficiency,
749*
peripheral, elevation of rectal temperature following mechanical obstruction to, 542
regulation of, mechanical basis of, 385*
studies on, in pregnancy, 251*
systemic, course of regulatory events in,
reaction of renal vessels during,
385*
lark, Eleanor L. and Clark, 73 D. 666.

Clark, Eleanor L., and Clark, E. R., 376*
Clark, Eliot R., and Clark, E. L., 376*
Clark, Eugene, and Berger, A. R., 124*
—, Graef, I., and Chasis, H., 126*
Coburn, Alvin F., 754,* 755*
—, and Kapp, E. M., 245*
—, and Moore, L. V., 747*
Cochems, K. D., and Kemp, J. E., 297
Cohen, Mandel E., and Thomson, K. J.,
251*
Cold. reduction in circulation through

Cold, reduction in circulation through hand resulting from, 251* Colitis, ulcerative, chronic, extensive ar-terial and venous thrombosis

complicating, 125*

Collens, William S., and Wilensky, N. D., 126,* 247*
Coma, diabetic, electrocardiogram during and after emergence from, 72
Concretion, pericardial, 753*
Conduction, apriculosyntroples, imprinced

Conduction, auriculoventricular, impaired mechanism of, in acute rheu-

matic fever, 413 system, action of extracts of bulbus scillae and scillaren on, and refractory phase of frog's heart, 745*

Congestion, condition of, acid production in functioning heart under, 743*
Cook, Hunter S., and Sappington, S. W.,

Cossio, P., Lascalea, M., and Fongi, E. G., 752* Cutts, Frank B., 451

Dack, S., Master, A. M., and Jaffe, H. L., 330

Dahm, M., and Meese, J., 761*
David, F., and Siedek, H., 504*
Death, sudden, pathology and pharmacology of cardiac syncope and, 240*

Diabetes, coma of, electrocardiogram dur-ing and after emergence from,

Dicker, E., 631* Dickhoff, Josef, 121* Digilio, Victor A., and Wolffe, J. B.,

Digitalis, action of, and indications for use in man and animals, 253* administration of, in normal adults, electrocardiographic changes in, 129* effect of or beautiful and indications for the second control of the secon

effect of, on hearts with insufficient aortic valves with and without hypertrophy, in heart-lung preparations, 121*
intoxication by, action of magnesium on ventricular ectopic rhythms occurring in, 749*
Digitoxin, sensitivity to, of hearts with insufficient valves with and without hypertrophy, 121*
Dill, D. B., Brouha, L., and Cannon, W. B., 501*
Diphtheria, alteration in heart in, 379*

B., 501*
Diphtheria, alteration in heart in, 379*
severe, heart fifteen to twenty years
after, 534
toxin of, dynamic effect of, acute experimental poisoning of heart with,

Dogs, training of, 495* Domenech, F., and Marañón, 245* Donal, John S., Jr., and Gamble, C. J., 120*

Dorsey, John L., 128*
Doryl (see Carbaminocholinchloride)
Dowling, Alexander S., Wearn, J.
Moritz, A. R., Haskin, G.
Hudson, C. L., and Orgain,
S., 7

Hudson, C. L., and Orgain, E. S., 7
Dragstedt, Carl A., and Mead, F. B., 500*
Ducey, E. F., McNamara, W. L., and Baker, L. A., 108
Dye, injection method for study of circulation, 250*
Dyer, W. Wallace, and Bellet, S., 72

Echaque, E. Soaje, 123* Eckey, P., 751* Edelken, Joseph, and Wood, F. C., 387 Edema, causes of, in congestive heart failure, 758* Edens, E., 253* Edens, E., 263* Einthoven equilateral triangle and null potential electrode, 629*

Eldbloom, L. E., 501*

Electrocardiogram, alterations in, pro-duced by typhoid fever in chil-dren, 123*

axis deviation, left, in dextroposition of heart showing, 104 beriberi, acute pernicious form of, and

beriberi, acute pernicious form of, and treatment by intravenous administration of vitamin B₁, 580 cardiac work and, 495* changes in, in normal adults following digitalis administration, 129 pathological, in S-T segment and T-waves of, on basis of direct leads, 752* in arteriovenous aneurysm, 95 diphasic ORS type of in concentral

diphasic QRS type of, in congenital heart disease, 202 during and after emergence from dia-

betic coma, 72

findings in heart-block, 751* genesis of, concerning new concept of,

17 in beriberi, acute pernicious form of,

580 in hypertension, Lead IV, 308

in lung embolism, 750° in malaria, 505*

in nephritis, acute, 751* interpretation of, 256 (book review) leads, midaxillary, of, in myocardial in-

farction, 701 notching in main deflection of, 629*

of myxedema heart, 123* of specialized heart muscle, 630* recorded, form of, effect of remote leads upon, 629*

upon, 629*
time relation between heart activity
and, 749*
variations in form of experimental
ventricular ectopic beats induced
in monkey and dog, 217
unit, mobile, for recording simultaneously heart sound, pulse tracing and, 731
Electrocardiographs, various, efficiency
of, 750*
Electrocardiography, clinical, emphysema.

Electrocardiographs, various, efficiency of, 750*
Electrocardiography, clinical, emphysema, 750*
use of chest leads in, 183
essentials of, 763 (book review)
fundamentals of, interpretations (book review) 764
Electrodes, null potential, and Einthoven equilateral triangle 629*

equilateral triangle, 629* Eliaser, Maurice, Jr., and Sampson, J. J.,

675 Embolectomy of vessels of extremities, 252*

Embolectomy of vessels of extremities, 252*

Embolism, lectures on, 255 (book review) lung, electrocardiogram in 750* pulmonary, experimental and infarction, 240*

relationship of hemorrhagic extravasations into leaflets of atrioventricular valves to, 124*

Embolization of superior mesenteric artery, genesis of intestinal infarction following, 382*

Emphysema, electrocardiographic observations in, 750*

Endocarditis, bacterial, subacute, 753* patent ductus botalli with, and recovery, 492

recovery in, 753*
lenta (see Endocarditis, bacterial) streptococcus viridans, subacute, fallure of human immune transfusion and serum therapy, 619 thrombotic, nonbacterial, associated with prolonged fever, arthritis, inflammation of serous membranes and widespread vascular lesions, 243*

purpura thrombocytopenic acute, 243*

Endocarditis, thrombotic, nonbacterial— Cont'd

Cont'd classification and general description, 242*
Epinephrine (see Suprarenal substance) Erythema nodosum, induction, experimental, of, 747*
pathogenesis of, and tuberculosis, streptococcus infection and rheumatic fever, 746*
Erythromelalgia, case of, 386*
observations on, and symptomatic relief of, 483
Eserine, intensification by, of action of

observations on, and symptomatic relief of, 483

Eserine, intensification by, of action of acetylcholine upon secretion of adrenalin, 628*

Esophagus, barium-filled, use of, in x-ray studies of abnormalities of heart and aorta, 723

course of, in health and in disease of heart and great vessels, 764*
displacement of, by cardiac lesions other than mitral stenosis, 228

Esser, C., 252*

Essex, Hiram E., Herrick, J. F., Baldes, E. J., and Mann, F. C., 119*

Euphylin, heart poisoned by, lactic acid metabolism of spontane ou sly failing heart and, 627*

Evans, William A., Jr., and Gibson, J. G., 747, *748*

Exercise, circulatory and chemical blood regulation during and after, 496*

orthostatic circulatory collapse in man following, 495*

orthostatic circulatory collapse in man following, 495° vascular, passive, 762 (book review) treatment of occlusive arterial dis-ease of extremities by, 761°

Faber, Borge, and Kjaergaard, H., 760* Fatherree, Thomas J., and Brown, G. E.,

Fear, reduction in circulation through hand resultin; from, 251*
Feller, Alto E., and Korns, H. M., 761*
Ferguson, L. K., Bronk, D. W., Margaria, R., and Solandt, D. Y., 119*
Ferris, Eugene B., Jr., and Wilkins, R.

R., and Solandt, D. Y., 119*
Ferris, Eugene B., Jr., and Wilkins, R.
W., 431
Fever, artificial, depth temperature in,
and cooling air chambers with
special reference to cooling effect of circulating blood, 746*
prolonged, thrombotic nonbacterial endocarditis associated with, 243*
Fibrillation, auricular, with congestive
heart failure and no other evidence of organic heart disease,
175

dence of organic heart disease, 175
ventricular, transient, 751*
Fibrinoid lesion, thrombosis of aorta and coronary arteries with. 126*
Fibrosarcoma, primary, of heart, 736
Fidler, R. S., Kissane, R. W., and Koons, R. A., 736
Findlay, F. M., 246*
Fischer, R., 377*
Fistula, arteriovenous, acquired: study by thorotrast arteriography, 247*
Filit, E. R., 508*
Fluid, extravascular administration of, transient hypertension following, 386*
Fongi, E. G., Cossio, P., and Lascalea, M., 752*
Freeman, Norman E., Shaw, J. L., and

Fongl, E. G., Cosses, M., 752* Freeman, Norman E., Shaw, J. L., and Snyder, J. C., 251* Frey, H., 750* Charles K., and Gross, L.,

Frey, H., 730* Friedberg, Charles K., and Gross, L., 242,* 243* —, and Sohval, A. R., 599 —, Gross, L., and Wallach, K., 243* Friedländer, E., and Adamek, G., 758*

Gaddas, S. F., Jochim, K., and Marquis, H., 731

Gamble, Clarence J., and Donal, J. S., Jr., 120*

Gangrene from blocking of veins, 382* Gastrointestinal system: action of carbaminocholinchloride upon

baminocholinchloride upon circulatory system and, 239*
Gauss, G., and Schlomka, G., 750*
Gay, L. K., and Hardesty, J. T., 250*
Gaylor, J. B., Uprus, V., and Carmichael, E. A., 508*
Geill, T., and Secher, K., 757*
German physiological society, 498*
Gerstner, H., 499*
Gibson, John G., and Evans, W. A., Jr., 747,* 748*
Gifford, U. G., Roesler, H., and Betts, W., 426
Gilson, A. S., and Bishop, G. H., 629*
Girones, L., Knoll, W., and Goerke, W., 749*
Glendy, Robert Earle, Castleman, B., and

Glendy, Robert Earle, Castleman, B., and White, P. D., 129 Gley, P., and Vaquez, H., 256 Glomus tumor, 126*

Goerke, W., Knoll, W., and Girones, L., 749*

Goiter, exophthalmic, occurrence and pathogenesis of cardiac hypertrophy in, 599
Goldberg, M., and Rothberger, C. J., 630*
Golden, J. S., and Brams, W. A., 207
Golden, Sherman E., Thompson, W. P., and White, P. D., 534
Golder, W., 629*
Goldsmith, Grace, 746*
Gollwitzer-Meier, Kl., 760*
Gotsey, T., 748*

—, Luchen, B., and Simmendinger, W., 505*
Gottdenker, F., and Rothberger, C. J.,

Gottdenker, F., and Rothberger, C. J., 627*

Gouley, Benjamin A., 470 Graef, Irving, Clark, E., and Chasis, H., 126*

Graves' disease (see Goiter, exophthal-Green, H. D., and Hoff, E. C., 238* Greenberg, Max M., and Lenore, R. M., 743*

Griffith, J. Q., Jr., Jeffers, W. A., and Lindauer, M. A., 380*
Gross, Louis, 275
—, and Friedberg, C. K., 242,* 243*
—, and Wallach, K., 243*
—, Mendlowitz, M., and Schauer, G., 647, 664
—, and Sohval, A. R., 242*
Grosse-Brockhoff, F., Schneider, M., and Schoedel, W., 748*
Gutman, I., Katz, L. N., Bohnen, A., Jochim, K., Korey, H., Ocko, F., and Robinow, M., 17
Gutzut, R., 382*

Gutzut, R., 382*

H

Halbsgut, A., 745*
Hardesty, J. T., and Gay, L. K., 250*
Harkins, Henry N., 757*
Hartmann, H., Orskov, S. L., and Rein, H., 385*
Hartog, H. A. Ph., and van Nieuwenhulzen, C. L. C., 308
Hashimoto, Hirotoshi, 580
Haskin, Grace E., Wearn, J. T., Moritz, A. R., Dowling, A. S., Hudson, C. L., and Orgain, E. S., 7
Haynes, Florence W., Welss, S., and Wilkins, R. W., 503*
Heart, abnormality of, and aorta, use of barium-filled esophagus in x-ray of, 723

Heart, abnormality—Cont'd congenital, patent ductus botalli, with subacute bacterial endocarditis

and recovery, 492 clinical and pathological findings in, due to defective development of right ventricle associated with tricuspid atresia and hypoplasia, 754

Heart, acetylcholine, action of, on, 748* action of, time relation between, and electrocardiogram, 241* embryonic, genesis of, on basis

of hydraulic tube phenomenon,

activity of, time relation between electrocardiogram and, 749*

after severe dipatheria, after to twenty years later, 534
apex of, kymographic appearance of, in marked dilatation, 252*
arrhythmia (see Heart, mechanism of)

beat, apex of, movements of lower lung

beat, apex of, movements of lower lung margin and, on lying down and sitting up, 748* physiological irregularities of, 123* capacity of, for work, with insufficient aortic valves with and without hypertrophy in heart-lung preparations and effect of digitalization, 121* changes in hookworm anemia and

changes in hookworm anemia and physiological adjustment, 550 contraction of, lapse of, as affected by intrathoracic function, 120*

intrathoracic function, 120*
ectopic, of, experimental ventricular,
induced in monkey and dog,
variations in electrocardiographic form of, 217
ventricular, of, asynchronism of, in
bundle-branch block, 628*
development of, physical methods of
investigating, 241*
dextroposition of, showing left axis
deviation in electrocardiogram,
164

dilatation, marked, of, kymographic appearance of cardiac apex in. pearance 252*

diphtheritic alterations of, 379* disease of, among seamen, 197 congenital, of, atlas of, 254 (book

congenital, of, atlas of, 254 (book review)
diphasic QRS type of electrocardiogram in, 202
course of esophagus in, 764*
evidence of, orthodiagraphic study of college students without, 387 in children, 36
organic, auricular fibrillation with congestive failure and no other evidence of, 175
patients with, socio-medical needs for, 761*
ambulatory with

ambulatory, with, value of direct venous pressure estimation in,

tolerance of, for various recumbent positions, 745*

pulmonary, occult, 501* rheumatic, of, 36 age of onset of, 36 high blood sedimentation rate in, 245*

peripheral veins in, 498*
recurrence of, 36
specific and nonspecific changes in
blood protein during, 754*
reentgen kymography, 760*
vessels and, 509 (book review)
enlargement of, 124*
extreme of, 207
failure of, investigation of, in course
and prognosis of coronary
thrombosis, 330
spontaneous, lactic acid metabolism
of, and heart poisoned with

Heart failure—Cont'd
NaF monoiodoacetic acid and

with euphylin, 627* congestive, auricular fibrillation with, and no other evidence of heart disease, 175

causes of edema in, 758*

patients with, histamine-yiel ding substance in plasma and red cells of normal human subjects and, 759*

fibrosarcoma, primary, of, 736

field, electrical, of 629*

function of, kymographic studies on influence of brief muscular work upon, 760* measure of, 377*

measure of, 377*
functioning, acid production in, under conditions of ischemia and of congestion, 743*
human, systolic suction, 498*
hypertrophy of, capillary supply in normal heart and, of rabbits, 744*
and power following ath'etics, 630*
occurrence and pathogenesis of, in Graves' disease, 599
work of, in, 687
irritability of, changes in, following systole, 499*
lesions of, displacement of esophagus

lesions of, displacement of esophagus by, other than mitral stenosis,

organic, of, 255 (book review)
measurements of, 495*
mechanism of, allorhythmia, extrasystolic, 749*
arrhythmias following mental and physical trauma, 750*
autonomic auricular rhythm, 749*
impaired auriculoventricular conduction in acute rheumatic fever, 413 413

transition between normal sinus rhythm, ventricular escape, A-V nodal rhythm, and A-V disso-ciation, 451

ciation, 451

ventricular ectopic rhythm, action of magnesium on, occurring in digitalis intoxication, 749*
metabolism, meaning of, for respiration and, 496*
metastases to, from carcinoma of duodenum, cardiac rupture associated with, 108
muscle, anemia and anoxemia of, and angina pectoris, 744*
disease, undecompensated, medicinal therapy in, 252*
specialized, electrocardiograms of, 630*

specialized, 630*

myxedema, electrocardiogram, 123*
output of, in man, 120*
in polycythemia yera, 746*
poisoning, effect of acute experimental,
with diphtheria toxin, 693
with NaF, monoiodoacetic acid, and
with euphylin, lactic acid metabolism of spontaneously failing heart, 627*
psychosis of, and symptoms of anxiety,
394

394

rate of sympathectomized dog in rest and exercise, 501*
revival of, from transient ventricular fibrillation, 751*
rhythmicity and conductivity of, unusual effects of small doses of strophanthin on, and its relation to parasystole, 751*
rupture of, associated with metastases to heart from carcinoma of duodenum, 108
size of, after coronary thrombosis, 630*
sounds of, registration and reproduc-

of, registration and reproduc-tion of, by "phototones," 241° mobile, for recording simul-taneously pulse tracing and electrocardiograms, 731 sounds

771 INDEX

Heart-Cont'd

feart—Cont'd
state of, in obesity, 757*
following introduction of radioactive
substances into organism, 376*
sympathetic centers of, activity of, 119*
syncope of, pathology and pharmacology of, and sudden death, 240*
valves of human, significance of blood
vessels in, 275
volume, minute, of, in intact animal
following adrenalin, 499*
work and. 499*
work of, and electrocardiogram, 495*
and volume, 499*
metabolism and limits of, 495*
leart-block, atrioventricular, complete,

metabolism and limits of, 495*
Heart-block, atrioventricular, complete, radiokymography, 252*
bundle-branch, asynchronism of ventricular contraction in, 628*
atypical, concerning, 750*
retrograde, atrioventricular rhythm with and without, 61
roentgen kymographic and electrocardiographic findings, 751*
Heckmann, K., 761*
Hemodynamic studies in coronary experimental occlusion, 647, 664

Hemodynamic studies in coronary experimental occlusion, 647, 664
Hemorrhage, extravasations into leaflets of atrioventricular valves, 124*
Herbst, R., and Manigold, K., 749*
Hermann, H., Jourdain, F., Morin, G., and Vial, J., 628*
Hermann, K., 753*
Herrick, J. F., Essex, H. E., Baldes, E. J., and Mann, F. C., 119*
Herrmann, Louis G., 762
Hiccoughs, persistent, as sole symptom of thoracic aneurysm, 624
Hinshaw, H. Corwin, and Smith, H. L., 741
Histamine, action of, upon blood vessels

Hinshaw, H. Corwin, and Smith, H. L.,
741
Histamine, action of, upon blood vessels
of brain, 631*
Histamine-like substance, increase in
concentration of, in human
venous blood during period of
reactive hyperemia, 760*
Histamine-yielding substance, in plasma
and red cells of normal human
subjects and of patients with
congestive heart failure, 759*
Hochrein, 495*
Hoff, E. C., and Green, H. D., 238*
Hoff, E. C., and Green, H. D., 238*
Hoff, H., and Pichler, E., 249*
Holfmann, J., and Kohan, B., 505*
Holzlöhner, E., 498*
Holzmann, M., 761*
Hormones, sympathomimetic, control of

Holziöhner, E., 498*
Holzmann, M., 761*
Hormones, sympathomimetic, control of sympathectomized blood vessels and relation to surgical treatment of patients with Raymaud's disease, 380*
Howes, E. L., and Lindskog, G. E., 507*
Hudson, Charles L., Wearn, J. T., Moritz, A. R., Dowling, A. S., Haskin, G. E., and Orgain, E. S., 7
Hunt, John H., 383*
Hyperemia, reactive, period of, increase in contraction of histamine-like substance in human venous blood during, 760*
vasomotor interference in nerve plexus of skeletal muscle vessels induced by vasodilator substance following, 748*
Hypertension, arterial, mechanism of, in acute nephritis, 756*
arterioles, digital, of normals and individuals with, 1
arteriosclerotic, "pale," 497*
electrocardiogram in, Lead IV, 308
essential, urine of patients with, presence of prolanlike substance in, and in renal disease, 496.* 497*

eyeground examination, value of, in, and in renal disease, 496, 497* following extirpation of cardiac pres-sor-receptive nerves, 627*

Hypertension-Cont'd

Hypertension—Cont'd menopause and, 245* obesity and, 757*
"red," relation of action of musculature on elasticity of living arterial wall to, 756* relation of, to structure of small arteries and arterioles in skeletal muscle, 246* surgical approach, 246* transient, in rats, following extravascular administration of fluid, 380*

380*

use of pancreatic extract in treatment of, 378*
Hypophysis, disease of, variation of blood pressure in, 245*
Hypotension, orthostatic, treated with benzedrine, 114

Infant, normal, cardiovascular activity.

Infant, normal, cardiovascular activity, registration and interpretation of, in, 244* registration and interpretation of cardiovascular activity in, 122* Infarct, intestinal, genesis of, following embolization of superior mesenteric artery, 382* myocardial, acute coronary thrombosis and, affecting a patient thirty-one years of age, 741 midaxillary leads of electrocardiogram in, 701 pulmonary, experimental, and embolism, 240* Infection, streptococcal, erythema nodo-

Infection, streptococcal, erythema nodo-sum, pathogenesis and, 746*
Intestine, infarction of, genesis of, fol-lowing embolization of superior mesenteric artery, 382*
small, entire, involvement of, complete occlusion of superior mesenteric artery, 126*

artery, 126* Ischemia (see Anemia)

Jaffe, H. L., Master, A. M., and Dack, S., 330 Jaffe, Louis, Short, J. J., and Bruger, M., 246* Jeffers, W. A., Griffith, J. Q., Jr., and Lindauer, M. A., 380* Jellinek. E. M., and Looney, J. M., 504* Jirka, Frank J., and Scuderi, C. S., 126* Jobling, James W., and Meeker, D. R., 124*

Jochim, K., Gaddas, S. F., and Marquis, H., 731

—, Katz, L. N., Bohning, A., Gutman, I., Korey, H., Ocko, F., and Robinow, M., 17

Johnson, C. E., and Borg, J. F., 88

Johnson, J. Raymond, and Wiggers, C.

J., 743*

Johnson, Victor, and Katz, L. N., 256

Jourdain, F., Hermann, H., Morin, G., and Vial, J., 628* 124*

Kahlson and Mertens, O., 499*
Kapp, E. M., and Coburn, A. F., 245*
Katz, L. N., Abramson, D. I., Margolin, S., and Lourie, R., 217

—, Bohning, A., Gutman, I., Jochim, K., Korey, H., Ocko, F., and Robinow, M., 17

—, and Johnson, V., 256
—, and Wachtel, H., 202
—, Witt, D. B., and Lindner, E., 693
Kayser, G., and Weber, A., 241*
Kemp, Jarold E., and Cochems, K. D., 297
Kenenhof, W. T., and Kohl, H., 502*
Key, Elmar, 252*

Kidney disease, eyeground examination, value of, in, and hypertension, 496,* 497* Eugene S., 619 Kinsman, J. Murray, and Moore, J. W., 250* Kirch, E., 630*
van Kiss, P., 379*
Kissane, R. W., Fidler, R. S., and Koons,
R. A., 736
Kjaergaard, Hans, 760*
—, and Faber, B., 760* Knoll, 495* Knoll, W., Girones, L., and Goerke, W., 749* Kohan, B., and Hoffmann, J., 505*
Kohan, B., and Hoffmann, J., 505*
Kohl, H., and Kenenhof, W. T., 502*
Koons, R. A., Fidler, R. S., and Kissane,
R. W., 736
Korey, H., Katz, L. N., Bohning, A.,
Gutman, I., Jochim, K., Ocko,
F., and Robinow, M., 17
Korns, Horace Marshall, and Feller, A.
E., 761*
—, and Randall, W. L., 114
Kraiss, H., 753*
Kramer, Kurt, 128*
Krebs, A., 376*
Kreuzfuchs, S., 501*
Kroetz, 496.* 498*
Kymographic studies on influence of brief muscular work upon heart function, 760*

L

Lactic acid metabolism of spontaneously failing heart and in heart poisoned with NaF, monoiodoacetic acid, and euphylin, 627*

Lanari, A., and Barto, A., 631*

Landé, Kurt E., and Sperry, W. M., 125*

Langendorf, R., and Pick, A., 750, * 751*

Larsen, Kal, Neukirch, F., and Nielsen, N. A., 163

Lascalea, M., Cossio, P., and Fongi, E. G., 752*

Lauderdale, T. L., and Allen, E. V., 384*

Lazarus, Joseph A., 126*

Lead IV, electrocardiogram in hypertension, 308

Leads, chest, use of, in clinical electrocardiography, 183

direct, analysis of pathological changes in S-T segment and T-waves of electrocardiogram on basis of, 752* m S-1 segment and 1-waves of electrocardiogram on basis of, 752*
midaxillary, of electrocardiogram in myocardial infarction, 701
remote, effect of, upon form of recorded electrocardiogram, 629*
Levy, Robert L., 254
Liddell, E. G., and Carleton, H. M., 238*
Lindauer, M. A., Griffith, J. Q., Jr., and Jeffers, W. A., 380*
Lindner, E., Witt, D. B., and Katz, L. N., 693
Lindskog, G. E., and Howes, E. L., 507*
Lings, Claire, Roth, I. R., and Whittemore, A., 36
Loeffler, Louis, 382*
Looney, J. M., and Jellinek, E. M., 504*
Lourie, R., Abramson, D. I., Katz, L. N., and Margolin, S., 217
Loewenberg, S. A., and March, H. C., 624
Lucken, B., Gotsey, T., and Simmendinger, W., 505*
—, and Schütz, E., 499*
Lung, disease of, changes in form and size of heart in, 238*
embolism of, electrocardiogram in, 750*
lower margin of, movements of, and apex beat, on lying down and sitting up, 748*
sclerosis of, changes in form and size of heart in, 238*
Lutembacher, R., 255

M McCombs, Robert P., and McElroy, J. S., 386* McDonald, C. H., 687 McElroy, James S., and McCombs, R. P., 386* McKechnie, R. E., and Allen, E. V., 383*
McNamara, W. L., Ducey, E. F., and
Baker, L. A., 108
Magnesium, action of, on strophanthin
and barium tachycardia, 751*
action of, on ventricular ectopic on ventricular ectopic ms occurring in digitalis of, or rhythms rhythms occurring in digitalis intoxication, 749*

Malaria, electrocardiographic observations in, 505*

Malikiosis, X., and Matthes, K., 249*
Manigold, K., and Herbst, R., 749*
Mann, Frank C., Essex, H. E., Herrick, J. F., and Baldes, E. J., 119*
Marañón, G., and Domenech, F., 245*
March, H. C., and Loewenberg, S. A., 624 Marañón, G., March, H. (624 March, H. C., and Loewenberg, S. A., 624
Marcu, J., 744*
Margaria, R., Bronk, D. W., Ferguson, L. K., and Solandt, D. Y., 119*
Margolin, S., Abramson, D. I., Katz, L. N., and Lourie, R., 217
Marquis, H., Jochim, K., and Gaddas, S. F., 731
Master, A. M., Dack, S., and Jaffe, H. L., 330
Matteff, 495*
Matthes, K., 498*
—, and Hochrein, M., 385*
—, and Malikiosis, X., 249*
May, P., Vires, J., and Balmis, J., 386*
Maycock, W. d'A., 633
Mead, Franklin B., and Dragstedt, C. A., 500*
Mediastinum, movement of, in aortic aneurysm, 761*
Meeker, Dorothy R., and Jobling, J. W., 124*
Meese, J., and Dahm, M., 761* Meeker, Dorothy R., and Jobling, 124*
Meese, J., and Dahm, M., 761*
Mendlowitz, Milton, Gross, L.,
Schauer, G., 647, 664
Menopause, hypertension and, 245*
Mertens, O., and Kahlens, 499*
Misske, B., 123*
Molz, B., 629*
Monoiodogeetic acid, heart, poisone Misske, D., 629*
Molz, B., 629*
Monoiodoacetic acid, heart poisoned by lactic acid metabolism of spon taneously failing heart and poisoned by. Moore, John W., and Kinsman, J. M., Moore, Lucile V., and Coburn, A. F., 747*

Moore, Robert M., and Greenberg, M. M., 743*

Morawitz, P., 252*

Morin, G., Hermann, H., Jourdain, F., and Vial, J., 628*

Moritz, Alan R., Wearn, J. T., Dowling, A. S., Haskin, G. E., Hudson, C. L., and Orgain, E. S., 7

Mufson, Isidor, 483

Müller, A., 385*

Muller, E. A., 499*

Muller, E. A., 499*

Muller, K., and Sunder-Plassmann, P., 506*

Murndy, Caril S., and Steinberg, B., 240*

Murmur, cardiac, basal systolic, trigonoidation of semilunar valves and relation to, 362

Muscle, skeletal, active, work and blood flow of, action of vasodilator substances on, 744*

arteries and arterioles, small, in, relation of age and hypertension to, 246*

Myocarditis, eosinophilic, idiosyncratic allergic disease, 242*

Myocardium, infarction of, acute coronary thrombosis and, affecting a patient thirty-one years of age, 741 Moore, Lucile V., and Coburn, A. F., 747*

age, 741

- Myocardium, infarction of. midaxillary leads of electrocardiogram in, 701
- tonsillitis and, 378*
 Myxedema, electrocardiogram of heart in, 123*

- Nathanson, M. H., 240* Nehrkorn, O., and Weicker, B., 378* Negroes, thromboanglitis obliterans in,
- Nephritis, ac 751* 511 acute, electrocardiogram in,
 - mechanism of arterial hypertension, 756*
- Nerve, cardiac, pressor-receptive, extir-pation of, hypertension follow-
- ing, 627*
 peripheral, block of, relief of pain by,
 in arterial disease of lower ex-
- tremity, 246*
 vasomotor interference in, of
 skeletal muscle vessels induced
 by vasodilator substance follow-
- ing hyperenna,
 Neslin, W., 749*
 Neukirch, Fritz, Larsen, K., and Nielsen,
 N. A., 163
 Neurovegetative-hormone system,
 naud's disease and, 506*
 Nicole, R., 247*
 Nicole, R., 247* ing hyperemia, 748*

- naud's disease and, 506* Nicole, R., 247* Nielsen, Niels A., Larsen, K., and Neu-kirch, F., 163 van Nieuwenhuizen, C. L., C., and Har-tog, H. A. Ph., 308 Norman, Irvin L., and Allen, E. V., 257 Norris, Robert F., 756* Nystrom, Gunnar, 255

- Obesity, state of heart in, 757*
 Occlusion, acute arterial, of extremities, 125*
 complete, of superior mesenteric artery with involvement of entire small intestine, 126*
 mesenteric, vascular, of arterial and venous origin, 757*
 sudden, of arteries of extremities, 383*
 Ocko, F., Katz, L. N., Bohning, A., Bobinow, M., 17
 Okelberry, Alfred M., White, J. C., and Whitelaw, G. P., 380*
 Olivet, 497*
 Orgain, Edward S., Wearn, J. T. Moritz
- Olivet, 497*
 Orgain, Edward S., Wearn, J. T., Moritz,
 A. R., Dowling, A. S., Haskin,
 G. E., and Hudson, C. L., 7
 Orias, O., Battro, A., and Braun-Menendez, E., 628*
 Orskov, S. L., Hartmann, H., and Rein,
 H., 385*
 Orthodisgraphic study of college students

- H., 385*
 Orthodiagraphic study of college students who showed no evidence of heart disease, 387
 Oxygen content and carbon dioxide content of arterial and venous blood of normal subjects, 504* deficiency and circulatory insufficiency, 740*
- saturation of arterial blood in man,

- rain, cardiac, 254 (book review)
 reduction in circulation through hand
 resulting from, 251*
 relief of, by peripheral nerve block in
 arterial disease of lower extremity, 246*
- Pal, J., 247* Palme, F., 498* Palmer, J. H., 630* 247*

- Pancreatic substance, use of, in
- Pancreatic substance, use of, in treatment of hypertension, 378*

 Parade, G. W., 750*

 Parasystole, unusual effects of small doses of strophanthin on rhythmelity and conductivity of heart, and its relation to, 751*

 Parkinson, John, 124*

 —, and Bedford, D. E., 754*

 Paschkis, K., 744*

 Paterson, J. C., 127*

 Pearl, Felix, 507*

 Periarteritis nodosa, clinical aspects of, 382*

 Pericarditis, adhesive, constriction of pulmonary artery by, 470

- Pericarditis, adhesive, constriction of pulmonary artery by, 470
 Pericardium, concretion of, 753*
 Pfuhl, Wilhelm, 120*
 Phototones, registration and reproduction of heart sounds by, 241*
 Pichler, E., and Hoff, H., 249*
 Pick, A., 750*
 —, and Block, C., 749*
 —, and Langendorf, R., 750,* 751*
 Pickering, G. W., 756*
 Poisoning, experimental, acute, of heart, dynamic effect of, with diphtheria toxin, 693
 Polanco, Mario, 753*
 Polycythemia, vascular complications of, 257

- Polanco, Mario, 753*
 Polycythemia, vascular complications of, 257
 vera, cardiac output in, 746
 Porter, William P., 550
 Potassium iodide, inhibition of experimental atherosclerosis by, and colloidal silicic acid, 627*
 Pregnancy, circulation in, 251*
 Pressure, equalizer (see Balloon)
 mean, of man in normal and pathological states, 256 (book review)
 Prolan, presence of substance like, in urine of patients with essential hypertension, 631*
 Pulse recording with electrical transmission, 379*
 tracing of, mobile unit for recording simultaneously, heart sounds, electrocardiogram and, 731
 venous, contour of, in silicosis, 760*
 jugular, 377*
 Purpura, thrombocytopenic, acute, non-bacterial thrombotic endocarditis associated with, 243*

Q

Quattlebaum, James T., 95

- Raab, W., and Schlomka, G., 379*
 Radioactive substance, introduction into
 organism, state of heart following, 376*
 Radiokymography in total atrioventricular block, 252*
 Randall, William Lloyd, and Korns, H.

- Randall, William Lloyd, and Korns, H.
 M., 114
 Ranke, O. F., 498*
 Raynaud's disease and neurovegetativehormone system, 506*
 control of sympathectomized blood
 vessels by sympathomimetic
 hormones and its relation to
 surgical treatment of, 380*
 critical review, 383*
 Refractory phase, action of extracts of
 bulbus scillae and scillaren on
 conduction system and, of frog's
 heart, 745*
 Rein, 496*
- heart, 745*
 Rein, 496*
 Rein, H., Hartmann, H., and Orskov, S. L., 385*
 Reindell, H., and Schlomka, G., 123*
 Respiration, effect of ventricular asystole on, 239*
 metabolism, meaning of, for heart and, 496*

Rheumatic fever, acute, mechanism of impaired auriculoventricular

conduction in, 413 specific and nonspecific changes in blood protein during, with car-ditis, 754* erythema nodosum pathogenesis and, 746*

mechanism of, 755* Rheumatic infection in childhood, mentation rate and Schilling count in, 124*
Rib, cervical, associated with aneurysm

of subciavian artery, 507* vascular complication unusual in, 508*

vascular complication unusual in, 508°
Robinow, M., 104

—, Katz, L. N., Bohning, A., Gutman, I., Jochim, K., Korey, H., and Ocko, F., 17
Roddis, Louis H., 256
Roentgenogram, barlum-filled esophagus, use of, in, of abnormalities of heart and aorta, 723
Roentgen kymogram findings in heartblock, 751°
kymography in diseases of heart, 760°
Roeske, 748°

kymography in diseases of heart, 750°Roeske, 748°Roesler, H., Gifford, U. G., and Betts,
W., 426
Roth, Irving R., Lingg, C., and Whittemore, A., 36
Rothberger, C. S., and Goldberg, M., 630°—, and Gottdenker, F., 627°—, and Zwillinger, L., 751°

Sampson, John J., 746*

—, and Eliaser, M., Jr., 675
Sappington, S. W., and Cook, H. S., 757*
Schauer, Gerhard, Gross, L., and Mendlowitz, M., 647, 664
Schilling count in rheumatic infections Schilling count in rheumatic infections in childhood, 124*
Schlomka, G., and Raab, W., 379*
—, and Gauss, G., 750*
—, and Reindell, H., 123*
Schmitt, H., 756*
Schneider, M., Grosse-Brockhoff, F., and Schneider, M., 748*
Schoedel, W., 744*
—, Grosse-Brockhoff, F., and Schneider, M., 748*
Schott, Adolf, 61
Schreyer, K., 627*
Schütz, E., and Lueken, B., 499*
Schwartz, Sidney P., 751*
Schwedel, J. B., 723
Sciatica, unilateral, difference in skin temperatures between lower extremittes, 501*
Scillae, bulbus, extracts of, action of, on conduction system and refractive schools of foreign cheat of forei

oulbus, extracts of, action of, on conduction system and re-fractory phase of frog's heart,

Scillaren, bulbus, extracts of, action of, on conduction system and refractory phase of frog's heart, 745*

Sclerosis, carlo S., and Jirka, F. J., 126* Scupham, George W., and de Takats, G., 125*

Seamen, heart disease among, 197
Secher, K., and Geill, T., 757*
Sedimentation rate, high, development of, in rheumatic carditis, 245*
in rheumatic infections in childhood, 124*
Secure 124 S. 122 * 244*

Segura, Angel S., 122,* 244*
Serous membranes, inflammation of, non-bacterial, thrombotic endocarditis, associated with, 243*
Serum therapy, failure of, and human immune transfusions in subacute Streptococcus viridans endo-carditis 619

carditis, 619

Shipley, Louise J., Shipley, R. A., and Wearn, J. T., 744*
Shipley, R. A., Shipley, L. J., and Wearn, J. T., 744*
Shock, surgical, peripheral blood flow in,

251* pharmacological study of toxemia theory of, 500* Short, James J., Bruger, M., and Jaffe, L., 246* Siebeck, 497*

Siedek, H., and David, F., 504* Sikl. H., 242*

Sikl, H., 242* Silbert, Samuel, 507*

Silicic acid, colloidal, experimental atherosclerosis, inhibition of, by po-tassium iodide and, 627*

tassium iodide and, 627*
Sillicosis, venous pulse contour in, 760*
Simmendenger, W., Gotsev, T., a n d
Lucken, B., 505*
Sinus, carotid, chemical receptors of, 498*
coronary, outflow of, validity of criterion of coronary reactions, 743*
Smirk, F. H., 758*
—, and Barsoum, G. S., 759,* 760*
Smith, Beverly C., 246*
Smith, Harry L., and Hinshaw, H. C., 741
Smithwick, R. H., 596*
Society for Digestive and Metabolic Disorders, communication, 495*
Society of German Biologists and Physicians, communication, 496*

cians, communication, 496*
Socio-medical needs for cardiac patients,
761*

Sodium fluoride, heart poisoned by lactic acid, and metabolism of spontaneously failing heart and, 627*

nitrite, nature of circulatory collapse induced by, 503* Sohval, Arthur R., and Friedberg, C. K., 599

599

-, and Gross, L., 242*
Solandt, D. Y., Bronk, D. W., Ferguson, L. K., and Margaria, R., 119
Sorsky, Eliot, and Wood, P., 183
Spectrophotometer and blue azo dye, use of, in clinical blood volume studies, 747*
Sperry, Warren M., and Landé, K. E., 125*
Sniegel Rose, 382*

Spiegel, Rose, 382*
Spink, Wesley W., 746*
Splanchnic region, influence of, upon systemic blood pressure, 505*
Sport, circulation in, 385*
Springorum, W., 499*
—, and Centenera, D., 498*
Steele, J. Murray, 542
Steinberg, Bernhard, and Mundy, C. S., 240*
Stenosis, congenital of abdominal conte

Stenosis, congenital, of abdominal aorta,

Stenosis, congenital, of abdominal aorta, 633
Strauss, L. H., 627*
Stromuhr, Rein, blood flow of both kidneys studied with, 498*
Strophanthin, effects, unusual, of small doses of, in rhythmicity and conductivity of heart and its relation to parasystole, 751*

sensitivity to, of heart with insufficient valves with and without hypertrophy, 121°
Struthers, R. R., and Bacal, H. L., 124°
Suction, systolic, of human heart, 498°
Sunder-Plassmann, P., and Muller, K., 506*

Suprarenal substance, cardiac volume in intact animal follow-499*

intravenous administration of, re-sponse to, by normal and hyper-tensive individuals as measured administration

by cutaneous temperatures, 1
secretion of, intensification by esertine
of action of acetylcholine upon
628*

- Sympathectomy, subjects injected intra-arterially, action of acetylcho-line on, 631*
- value of, in treatment of vascular disease, 506*
 Syncope, cardiac, clinical, differentiation
- of types, 88
- pathology and pharmacology of, and sudden death, 240* Syphilis, cardiovascular, studies in, 297 Systole, relative duration of, significance of, 379*

T

- strophanthin and barium, Tachycardia,

- Tachycardia, strophanthin and barium, action of magnesium on, 751*

 de Takats, Geza, 125*
 —, and Scupham, G. W., 125*
 Taussig, Helen B., 754*
 Teleroentgenography in diagnosis of early syphilitic aortitis, 297
 Temperature, cutaneous, response of digital arterioles of normal and hypertensive individuals to intravenous administration of epinephrine as measured by, 1
 depth, in artificial fevers and cooling air chambers with special reference to cooling effect of circulatory blood, 746*
 rectal body, elevation of, following mechanical obstruction of peripheral circulation. 542
 skin, differences in, between lower extremities unilateral sciatica, 501*
- 501*
- Thiel. 497*
- Thiel, 497*
 Thomas, Henry M., Jr., 239*
 Thompson, William Paul, Golden, S. E.,
 and White, P. D., 534
 Thomson, K. Jefferson, and Cohen, M. E.,
 251*
- Thorium dioxide, arteriography by, demonstration of ruptured popliteal aneurysm, 127° study of acquired arteriovenous fistula, 247°

 Thorner, 495°, 247°

 Thorner, 495°, 247°

- Thorotrast (see Thorium dioxide)
 Thromboangiitis obliterans and Addison's
 disease in the same patient,
 in presence to
 - in negroes, 51 in women, 373
- in negroes, 511
 in women, 373
 transmission, accidental, from man to
 man, 384*
 Thrombophlebitis, venography in, 758*
 Thrombosis, aortic, and coronary artery
 with "fibrinoid" lesions, 126*
 arterial, extensive, and venous, complicating chronic ulcerative colitis,
 125* 125*

- coronary, acute, and myocardial infarction affecting a patient thirty-one years of age, 741 heart failure and other factors in its course and prognosis, 330 size of heart after, 630* venous, acute, arterial spasm in, 247* extensive, and arterial, complicating chronic ulcerative colitis, 125*
 Thyroxin, action of, upon capacity for work and upon strophanthin sensitivity of cat's heart, 121*
 Tilk, G. V., 761*

- sensitivity of cars near, 121
 Tilk, G. V., 761*
 Tirala, L. G., 380*
 Tobacco, control of habit, 128*
 Tonsillitis, myocardium and, 378*
 Toxemia theory of surgical shock, pharmacological study of, 500*
 Transfusion, immune, human, failure of, and serum therapy in subacute streptococcus viridans endocarditis, 619
- carditis, 619 mental and mental and physical, harrhythmias following, 750* Trauma,

- Trepopnea, tolerance of certain cardiac patients for various recumbent positions, 745* Trigonoidation of semilunar valves and
- relation to certain basal systolic murmurs, 362
- Tube, hydraulic, phenomenon of, genesis of embryonic heart action on basis of, 744*
- basis of, 744* Tuberculosis, erythema nodosum, patho-
- Tuberculosis, erythema houssum, patho-genesis of and, 746* Typhoid fever, electrocardiographic alter-ations produced by, in children,

U

- Udvardy, L., 238* Ulrich, B., 239* Uprus, V., Gaylor, J. B., and Carmichael, E. A., 508* Urban, H., 239*

- Valve, aortic, insufficiency of, work of left ventricle in, 241* with and without hypertrophy in heart-lung preparations, capacity for work of hearts with, 121* sclerosis, calcific, of, 242* trigonoidation of, and relation to certain basal systolic murmurs, 362
- heart, normal and abnormal, incidence and significance of blood vessels in. 7
- in, 7 d, stenosis of, circulatory dy-namics of, 589 tricuspid,
- Valves, atrioventricular, leaflets of, extra-vasations, hemorrhagic, into,
- 124*
- Van Dellen, Theodore R., and Wright, I. S., 373
 Vaquez, H., and Gley, P., 256
 Vascular system, disease of, and heart, 509 (book review)
 peripheral, surgical treatment of.
 - 125*
 - value of sympathectomy in, 506* lesion widespread, of, endocarditis, thrombotic, nonbacterial associated with, 243* peripheral, obstruction of, two quantitative tests of, 126* regulation of humeral counter, 249* symptoms in reversible autohemagguithmatics with 386*

- regulation of humeral counter, 249*
 symptoms in reversible autohemagglutination with, 386*
 vasomotor control of, 250*
 Vasodilator substances, action of, on work
 and blood flow of active skeletal
 muscles, 744*
 vasomotor interferences in nerve
 plexus of skeletal muscle vessels induced by, following hyperemia, 748*
 Vasomotor center, acetylcholine action of,
 on, 748*
 interference in nerve plexus of skeletal
 muscle vessels induced by vasodilator substances follo win g
 hyperemia, 748*
 Veins, blocking of, gangrene from, 382*
 occlusion, intermittent, treatment of
 peripheral obliterative arterial
 diseases by, 247*
 peripheral, in rheumatic disease, 498*
 rôle of, in circulatory collapse induced
 by sodium nitrite, 503*
 thrombosis, extensive, of, and artery,
 complicating chronic ulcerative
 colitis, 125*
 Ventricle left work of in acritic in-

- complicating chronic dicerative colitis, 125*
 Venography in thrombophlebitis, 758*
 Ventricle, left, work of, in aortic insufficiency, 241*
 Vial, J., Hermann, H., Jourdain, F., and Morin, G., 628*

Vires, J., May, P., and Balmis J., 386* Vitamin B., treatment by intravenous ad-ministration of, of acute perni-cious beriberi, 580

Vodel, 498* Volhard, F., 496*

W

Wachtel, H., and Katz, L. N., 202
Wallach, Kaufman, Friedburg, C. K., and Gross, L., 243*
Wearn, Joseph T., Moritz, A. R., Dowling, A. S., Haskin, G. E., Hudson, C. L., and Orgain, E. S., 7
—, Shipley, R. A., and Shipley, L. J., 744*
Weber, A., 241.* 241*
—, and Kayser, G., 241*
Weicker, B., and Nehrkorn, O., 378*
Weiss, Soma, Wilkins, R. W., and Haynes, F. W., 503*
Wezler, K., and Böger, A., 128.* 248.*
376.* 756*
White, James C., Okelberry, A. M., Whitelaw, G. P., 380*
White, Paul D., Glendy, R. E., and Castleman, B., 129
—, Thompson, W. P., and Golden, S. E., 534
Whitelaw, George P., White, J. C., and Whitelaw, George P., White, J. C., and Okelberry, A. M., 380*

Whittemore, Alice, Roth, I. R., and Lingg, C., 36 Whitten, Merritt B., 701 Wiggers, Carl J., and Johnson, J. R., 743* Wilensky, Nathan D., and Collens, W. S., 126,* 247* Wilkins, Robert W., and Ferris, E. B., —, Weiss, S., and Haynes, F. W., 503* William Withering, 256 (book review) Witt, D. B., Lindner, E., and Katz, L. N., 693 Wolferth, Charles Christian, and Wood, F. C., 745* Wolffe, Joseph B., and Digilio, V. A., 378* Women, thromboangiitis obliterans in, 373 Wood, Francis Clark, and Edeiken, J., 387 431 —, and Wolferth, C. C., 745° Wood, Paul, and Sorsky, E., 183 Wortis, Joseph, 394 Wright, Irving S., and Van Dellen, T. R.,

Yater, Wallace M., 127,* 247,* 511

373

Zwillinger, L., and Rothberger, C. J., 751*

